PHILIPS

FW-V55

VCD Mini Hi-Fi System

Video CD version 2

PHILIPS

Let's make things better.

English

中文

Bahasa Melayu

Optimum disc playability : ensuring excellent picture quality

Philips components and modules for the various CD applications have always enjoyed an excellent reputation in the market place for super disc playability - the ability to play discs which may be scratched, soiled or not fully according to the standard specification. This position has been underlined by tests showing the superior performance of the various Philips players, as well as by the positive experiences of millions of individual consumers around the world.

Constantly improving performance

As the penetration of the CD system has increased, and new applications like CD-ROM and Video CD have become commonplace, Philips Components - as the CD technology inventor and as one of the major suppliers of CD player modules in the industry - has constantly improved the performance of its products.

One of the ways in which this benefits users is by optimum disc playability. This is an important parameter for CD players other than CD Audio, and especially for the Video CD applications, because any loss of data from the disc will at best cause disturbances in the reproduced picture, and at worst can cause the player to lose track so that disc playing fails.

Presenting Super Error Correction

To ensure consistently good results when playing Video CD discs of all quality grades and conditions, Philips has introduced further improvements in the system's playability. These developments together are called Super Error Correction, a proprietary Philips technology optimizing the system's ability to handle less-than-perfect discs with the minimum disturbance to normal playing.

By effectively eliminating virtually all errors arising under normal playing conditions, Super Error Correction ensures that the picture quality as seen by the user is independent of disc play. The video encoding and processing during mastering of the disc, and the MPEG-1 decoding and video encoding in the signal processing stages, are now the only limiting factors for picture quality.

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GENERAL INFORMATION

IMPORTANT:
PLEASE NOTE THAT THE VOLTAGE SELECTOR LOCATED AT THE REAR OF THIS SYSTEM IS PRESET AT 220V FROM THE FACTORY. FOR COUNTRIES THAT OPERATE AT 110V, PLEASE ADJUST TO 110V BEFORE YOU SWITCH ON THE SYSTEM.

General Information

- ***The type plate (which contains the serial number) is located at the rear of the system.***
- ***Recording is permissible if copyright or other rights of third parties are not infringed.***

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Accessories *(Supplied)*

– Remote control
– Batteries (two AA size) for remote control
– AM loop antenna
– FM wire antenna
– AC power cord
– One Video cinch cable

Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The typeplate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
  Allow at least 10 cm clearance from the rear and the top of the unit and 5 cm from each side.
- Do not expose the system to excessive moisture, rain, sand or heat sources.

SAFETY INFORMATION

English

- Under no circumstances should you repair the system yourself, as this will invalidate the warranty!
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the system. Should this occur, the disc player will not operate normally. Leave the power on for about one hour with no disc in the system until normal playback is possible.
- Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
- **To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

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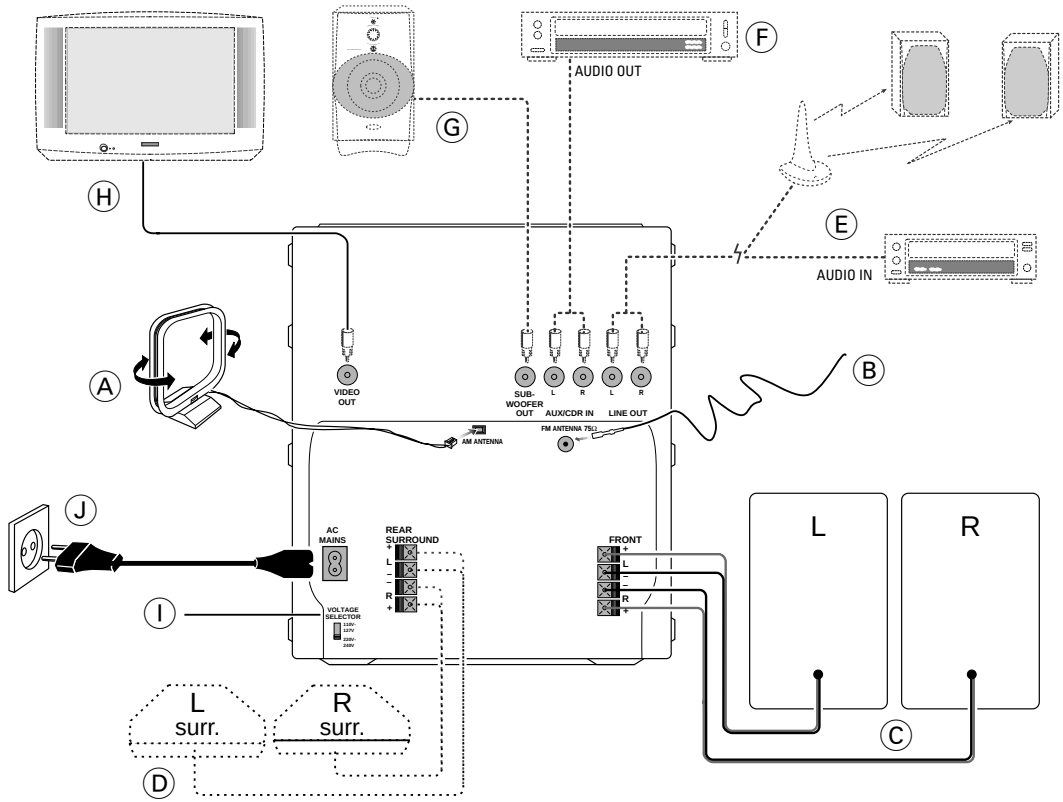
English

Rear Connections



Ⓐ AM Loop Antenna Connection

Connect the supplied loop antenna to the AM ANTENNA terminal. Place the AM loop antenna far away from the system and adjust its position for the best reception.

Ⓑ FM Wire Antenna Connection

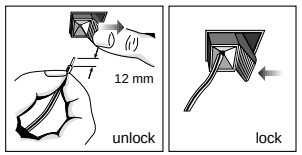
Connect the supplied FM wire antenna to the FM ANTENNA 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna

For better FM stereo reception connect an outdoor FM antenna to the FM ANTENNA 75 Ω terminal using a 75 Ω coaxial wire.

Ⓒ Speakers Connection

- Connect the right speaker to Front terminal R, with the colored wire to + and the black wire to −.
- Connect the left speaker to Front terminal L, with the colored wire to + and the black wire to −.
- Clip the stripped portion of the speaker wire as shown.



CAUTION:

- *For optimal sound performance, it is recommended to use the supplied speakers.*
- *Do not connect more than one speaker to any one pair of + /— speaker terminal.*
- *Do not connect speakers with impedance lower than the speakers supplied. Please refer to SPECIFICATION section of this manual.*

Ⓓ Rear Surround Speakers' Connection

Connect the optional Rear Surround Speakers to the REAR SURROUND terminals. Be sure to follow the instructions supplied with the Rear Surround Speakers.

Ⓔ Line Out Connection *(wireless ready)*

You can connect the audio left and right LINE OUT terminals to a optional CD Recorder ANALOG IN terminals. This allows you to record in an analog format.

You can also install additional optional front active speakers away from the system (e.g. in another room) to reduce the inconvenience of running long speaker wires across rooms. You can place as many remote speakers as you like provided they operate at the same radio frequency.

Connect the wireless radio frequency transmitter to the LINE OUT terminals. Place the active speakers at your preferred location. Be sure to follow the instructions supplied with the active speakers.

Note:

- *Availability of wireless transmitter and its peripherals are subjected to the approval of local authorities. Please check with respective local safety or approving authority.*

Ⓕ Connecting other equipment to your system

You can connect the audio left and right OUT terminals of a TV, VCR, Laser Disc player, DVD player or CD Recorder to the AUX/CDR IN terminals at the rear of the system.

Ⓖ Subwoofer Out Connection

Connect the optional active subwoofer to the SUBWOOFER OUT terminal. The subwoofer reproduces just the low bass sound effect (e.g. explosions, the rumble of spaceships, etc.). Be sure to follow the instructions supplied with the subwoofer.

Ⓗ Video Out Connection

Connect the VIDEO OUT terminal at the rear of the system to the TV or VCR VIDEO IN for viewing or recording.

Ⓘ Adjusting the Operating Voltage

(for specific version only))

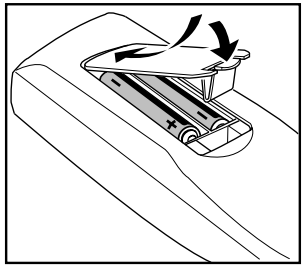
Before connecting the AC power cord to the wall outlet, make sure that the voltage selector at the rear of the system is set to the local power line voltage. If not, reset the selector before connecting to the wall outlet.

Ⓙ AC Power Supply

After all other connections have been made, connect the AC power cord to the system and to the wall outlet.

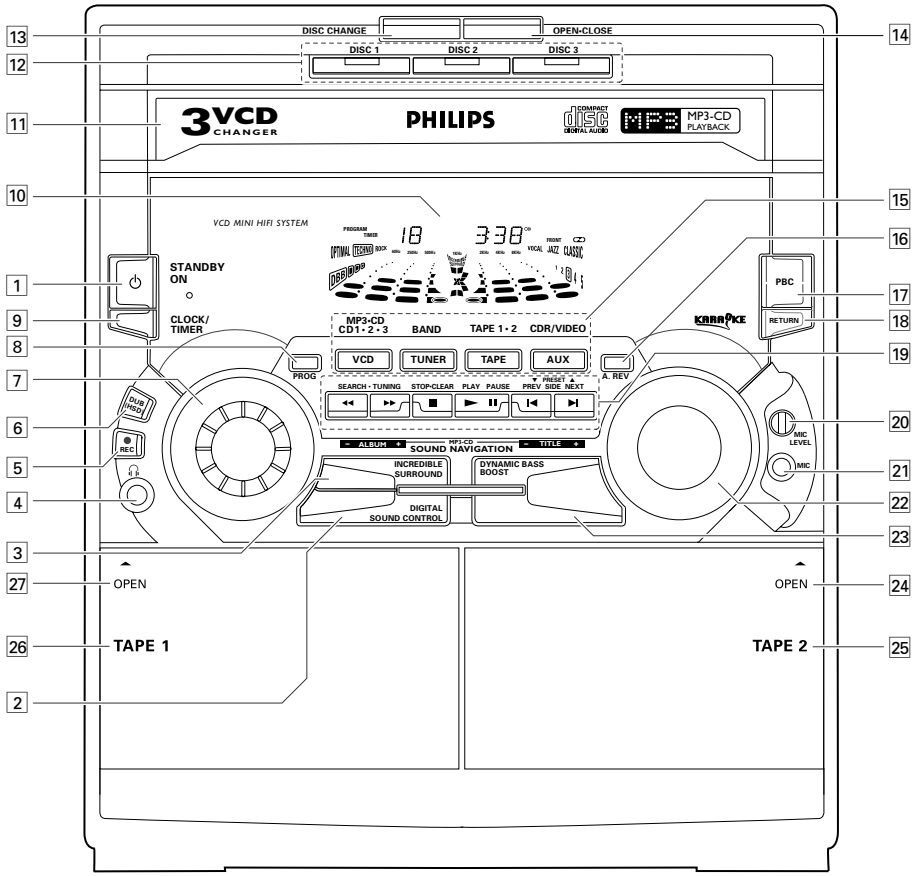
Inserting batteries into the Remote Control

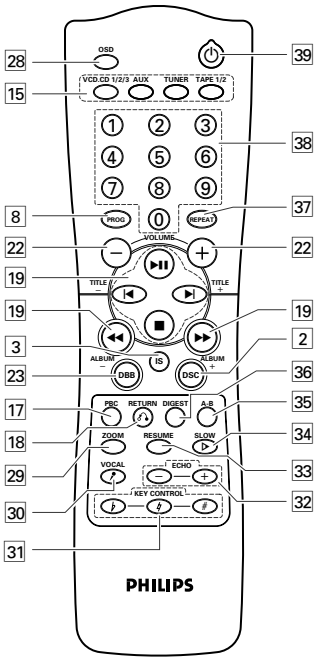
- Insert the batteries (Type R06 or AA) into the remote control as shown in the battery compartment.



- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement, use type R06 or AA batteries.

CONTROLS


DISC CHANGE
OPEN-CLOSE
DISC 1
DISC 2
DISC 3
3VCD CHANGER
PHILIPS
MP3-CD PLAYBACK
VCD MINI HIFI SYSTEM
STANDBY ON
CLOCK/ TIMER
MP3-CD CD1 • 2 • 3
BAND
TAPE 1 • 2
CDR/VIDEO
VCD
TUNER
TAPE
AUX
PROG
A. REV
PBC
RETURN
KARAOKE
SEARCH - TUNING
STOP-CLEAR
PLAY PAUSE
PREV SIDE NEXT
SOUND NAVIGATION
INCREDIBLE SURROUND
DYNAMIC BASS BOOST
DIGITAL SOUND CONTROL
MIC LEVEL
MIC
REC
OPEN
TAPE 1
OPEN
TAPE 2


OSD
VCD CD 1/2/3
AUX
TUNER
TAPE 1/2
PROG
REPEAT
VOLUME
TITLE
ALBUM
DBB
DSC
PBC
RETURN
DIGEST
A-B
ZOOM
RESUME
SLOW
VOCAL
ECHO
KEY CONTROL
PHILIPS

English

Controls on the system and remote control

1 **STANDBY ON**
– to switch the system on or to standby mode.
– to use for EASY SET.

2 **DIGITAL SOUND CONTROL (DSC)**
– to select the desired sound effect : OPTIMAL, CLASSIC, TECHNO, JAZZ, ROCK or VOCAL.

3 **INCREDIBLE SURROUND**
– to switch on or off the surround sound effect.

4 🎧
– to connect headphones.

5 **REC (RECORD)**
– to start recording on tape deck 2.

6 **DUB (HIGH SPEED DUBBING [HSD])**
– to dub a tape in normal or fast speed.

7 **JOG**
– to select the desired equalizer display.
– to select the desired DSC setting. You must select the DSC feature first.
– to select the desired level of Incredible Surround Sound. You must select the Incredible Surround Sound feature first.

8 **PROGRAM (PROG)**
for VCD/CD/MP3-CD…to program disc tracks.
for TUNER ..... to program preset radio stations.
for CLOCK ..... to select 12 or 24 hour in clock setting mode *(on the system only).*

9 **CLOCK/TIMER**
– to view the clock, set the clock or set the timer.

10 **DISPLAY SCREEN**
– to view the current setting of the system.

11 **DISC CAROUSEL TRAY**

12 **DISC 1 / DISC 2 / DISC 3 (DISC DIRECT PLAY)**
– to select a disc tray for playback.

13 **DISC CHANGE**
– to change disc(s).

14 **OPEN•CLOSE**
– to open or close the disc carousel tray.

15 **SOURCE** – to select the following:
VCD / (CD 1•2•3) / (MP3•CD)
– to select VCD/CD/MP3 mode. When VCD/CD/MP3-CD playback is stopped, press to select the disc tray 1, 2 or 3.
Adjusting the TV System
– to select corresponding PAL or NTSC system of your TV set (exception Multi-system TV).
TUNER / (BAND)
– to select Tuner mode. When in tuner mode, press to select the waveband: FM or MW.
TAPE / (TAPE 1• 2)
– to select Tape mode. When tape playback is stopped, press to select either tape deck 1 or 2.
AUX / (CDR/VIDEO)
– to select sound from an external source (e.g. TV, VCR, Laser Disc player, DVD player or CD Recorder). When in Aux mode, press to select either AUX or CDR.

16 **A. REV (AUTO REVERSE)**
– available in tape deck 2 only.
– to select the desired play modes (/ /).

17 **PBC (PLAYBACK CONTROL)**
– to switch on or off PBC mode *(for VCD version 2.0 only).*

18 **RETURN**
– for VCD with PBC on to return to the previous MENU level during playback *(for VCD version 2.0 only).*

19 **MODE SELECTION**
SEARCH•TUNING ◀◀ ▶▶
(ALBUM —/+)
for MP3-CD only…to select previous/ next Album at stop mode
for VCD only…to move the zoom picture to the left or right.
for VCD/CD/MP3-CD…to search backward/forward during playback.
for TUNER ..... to tune to a lower or higher radio frequency.
for TAPE ..... to rewind or fast forward a tape.
for CLOCK ..... to set the hour *(on the system only).*

STOP•CLEAR ■
for VCD/CD/MP3-CD…to stop disc playback or to clear a program.
for TUNER ..... to stop programming.
for TAPE ..... to stop playback or recording.
for DEMO ..... *(on the system only)* to start or stop demonstration mode.
PLAY PAUSE ▶II
for VCD/CD/MP3-CD…to start or interrupt playback.
for VCD only…to watch a still picture.
for TAPE ..... to start playback.
PREV I◀ / SIDE / NEXT ▶I
(PRESET ▼▲) (TITLE —/+)
for MP3-CD only…to select previous/ next Title.
for VCD only…to move the zoom picture down or up.
for VCD with PBC on .....
..... to select next or previous MENU.
..... to select next or previous VCD track during playback.
for VCD/CD ... to skip to the previous, or next track.
for TUNER ..... to select a preset station in memory.
for TAPE ..... to select tape side (back or front) in tape deck 2 only.

English

for CLOCK ..... to set the minute *(on the system only).*

20 **MIC LEVEL**
– to adjust the mixing level for karaoke or microphone recording.

21 **MIC**
– to connect microphone jack.

22 **VOLUME**
– to increase or decrease the volume.

23 **DYNAMIC BASS BOOST (DBB)**
– to select a bass boost level or to switch off bass boost.

24 **OPEN**
– to open tape deck 2.

25 **TAPE DECK 2**

26 **TAPE DECK 1**

27 **OPEN**
– to open tape deck 1.

28 **OSD (ON SCREEN DISPLAY)**
– to switch on or off the on screen display on the TV screen.

29 **ZOOM**
– to enlarge a still picture on the TV screen *(for VCD operation only).*

30 **VOCAL**
– to fade out the vocal of the original song during VCD playback or to switch between mono or stereo mode during audio disc playback *(for VCD operation only).*

31 **KEY CONTROL (♭ ♮ ♯)**
– to change the key to suit your vocal range *(for VCD operation only).*
♭ ..... to decrease vocal key level.
♮ ..... to restore vocal key to original setting.
♯ ..... to increase vocal key level.

32 **ECHO —/+**
– to adjust the echo level for karaoke *(for VCD operation only).*

33 **RESUME**
– to continue playback again from where you have stopped. Only when PBC mode is switched off *(for VCD operation only).*

34 **SLOW**
– to watch a VCD at a slower speed. There are 3 modes of selection *(for VCD operation only).*

35 **A - B**
– to playback a certain scene or passage of a VCD/CD repeatedly.

36 **DIGEST**
– to scan through a VCD or a particular track. There are 4 modes of selection *(for VCD operation only).*

37 **REPEAT**
– to repeat a disc track or the current disc.

38 **DIGIT 0 – 9**
(numbers consisting more than two figures must be keyed in within 2 seconds.)
for VCD with PBC on ..... to select an entry level.
for VCD/CD/MP3-CD…to key in a disc track to start playback
or
..... to select another track during playback or
..... to select a track for programming.

39 ⏻
– to switch the system to standby mode.

Notes for remote control:
– ***First select the source you wish to control by pressing one of the source select keys on the remote control (e.g. VCD, TUNER, etc.).***
– ***Then select the desired function (▶, ⏮, ⏭, etc.).***

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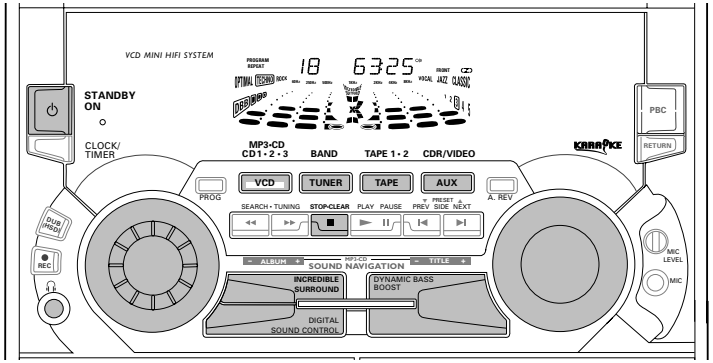


Important:
Before you operate the system, complete the preparation procedures.

Demonstration mode

The system has a demonstration mode that shows the various features offered by the system. ***When the system is switched on for the first time, the demonstration mode will start automatically.***

Notes:
- *During the demonstration, if you press any source (or standby-on) button, the system will switch to the respective mode (or standby).*
- *When the system is switched to standby mode, the demonstration will resume 5 seconds later.*

To stop the demonstration mode
- Press and hold ■ *(on the system only)* for ***5 seconds*** when the system is in demonstration mode.
  → The demonstration will stop.
  → "DEMO OFF" is displayed.
  → The system will switch to standby mode.

Notes:
- *When the system is switched on from the main power outlet, the CD carousel tray may open and close again to initialize the set.*
- *Even though the AC power cord is removed from and reconnected to the wall socket, the demonstration will remain off until it is switched on again.*

To start the demonstration mode
- Press and hold ■ *(on the system only)* for ***5 seconds*** when the system is in standby mode.
  → The demonstration will begin.

Easy Set

EASY SET allows you to store all available radio stations automatically.

- Press and hold **STANDBY ON** *(on the system only)* for ***5 seconds***; when the system is in standby or demonstration mode.
  → "EASY SET" will be displayed, and followed by "TUNER" and then "AUTO".
  → EASY SET will start searching for all radio on FM band and then followed by radio stations on MW band.
  → All available radio stations with sufficient signal strength will be stored. Up to 40 presets may be stored.

Notes:
- *EASY SET will start with the FM band, if there are still presets available, the system will continue to store the MW band.*
- *When EASY SET is used, all previously stored radio stations will be replaced.*
- *The last preset radio station will appear on the display when EASY SET is completed.*

Switching the system ON

- Press **VCD**, **TUNER**, **TAPE** or **AUX**.

You can also switch on the system by pressing any one of the DISC DIRECT PLAY buttons.

Switching the system to standby mode

- Press **STANDBY ON** or ⏻ on the remote control.
  → The system will switch to standby mode.

Selecting the Source

- Press the respective source selection button: **VCD**, **TUNER**, **TAPE** or **AUX**.
  → The display indicates the selected source.

Note:
- *For an external source, make sure you have connected the audio left and right OUT terminals of the external equipment (TV, VCR, Laser Disc player, DVD player or CD Recorder) to the AUX/ CDR IN terminals.*

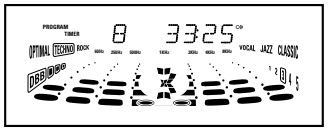
English

Selecting the Equalizer Display

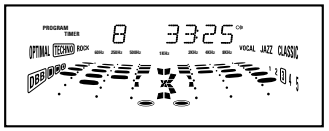
You can select the desired equalizer display for the system. You must not press the DSC or INCREDIBLE SURROUND button on the system before using the JOG control.

- Adjust the JOG control to select the desired Equalizer Display, NORMAL, TOP DOWN, or NITE MODE.
  → The selected display will be shown.

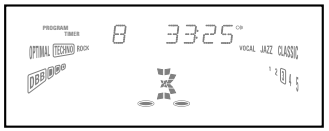
NORMAL Display



TOP DOWN Display



NITE MODE Display



Note:

– *In NITE MODE, all lights will be switched off and the display brightness will be dimmed.*

Sound Control

VOLUME ADJUSTMENT

Adjust **VOLUME** to increase or decrease the sound level.

For Personal Listening

Connect the headphones plug to the 🎧 socket at the front of the system. The speakers will be muted.

INCREDIBLE SURROUND

Normal stereo sound is determined by the distance between the front speakers. When Incredible Surround is switched on, it magnifies the virtual distance between the front speakers for an incredibly wide, enveloping, stereo effect. There are 12 different Incredible Surround levels available for selection.

- Press **INCREDIBLE SURROUND** to switch on.
  → The **INCREDIBLE SURROUND** display lights up.
  → "IS XX" will be displayed.

Note:

– *"XX" is the last selected Incredible Surround level.*

You can change the Incredible Surround level with the JOG.

- Adjust the JOG control to select the desired Incredible Surround level immediately after selecting the Incredible Surround feature.
  → The Incredible Surround level will increase or decrease between level 1 and 12.

To switch off Incredible Surround

- Press **INCREDIBLE SURROUND** again.
  → The **INCREDIBLE SURROUND** display is switched off.
  → "IS OFF" will be displayed.

DIGITAL SOUND CONTROL (DSC)

The DSC feature enables you to adjust the system to suit your type of music.

- Press **DIGITAL SOUND CONTROL (DSC)** to select OPTIMAL, CLASSIC, TECHNO, JAZZ, ROCK or VOCAL.
  → The selected digital sound is encircled.
  → "OPTIMAL X, CLASSIC, TECHNO X, JAZZ X, ROCK X or VOCAL X" will be displayed. "X" is the pre-selected level.

With the JOG control, you can change the level of any DSC setting except CLASSIC.

- First select the DSC feature, then adjust the JOG control until the desired digital sound setting level is reached.
  → The digital sound setting level will increase or decrease between level 1 and 5.

Note:

– *For neutral setting, select CLASSIC and switch off DBB.*

DYNAMIC BASS BOOST (DBB)

There are three DBB settings to enhance the bass response.

- Press **DBB** briefly to select a bass boost level.
  → The respective DBB level will be encircled and lit.
  → "BEAT", "PUNCH" or "BLAST" will be displayed.

To switch off DBB

- Press **DBB** briefly until "DBB OFF" is displayed.

Note:

– *Some CDs or tapes might be recorded in high modulation, which causes a distortion at high volume. If this occurs, switch off DBB or reduce the volume.*

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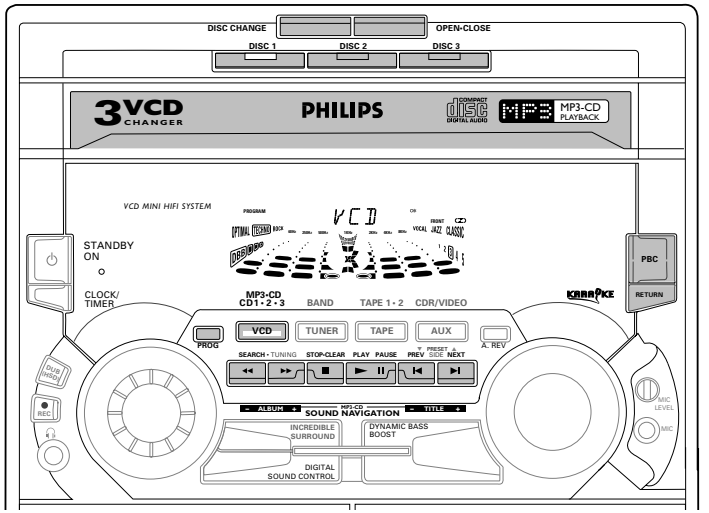
Automatic DSC-DBB selection

The best DBB setting is generated automatically for each DSC selection. You can manually select the DBB setting that best suits your listening environment.



Warning!

1) This system is designed for conventional Discs. Do not use any accessories such as disc stabilizer rings or disc treatment sheets, etc., which may damage the disc mechanism.

2) Do not load more than one disc into each tray.

3) When the disc changer is loaded with Discs, do not turn over or shake the system. This may jam the changer.

The CD part of this system also serves as a Video CD player if you connect it to your TV set. You can load up to three discs in the disc changer for continuous playback without interruption.

Before viewing the Video CD, ensure that the set is switched to corresponding PAL or NTSC system of your TV set (exception Multi-system TV).

English

Discs for playback

This system can playback all audio CD, finalized audio CD-Recorder and MP3-CD format discs.

Note:

– *For mixed mode discs, only one mode will be selected for playback depending on the recording format.*

Loading the Disc Changer

1 Press **VCD** to select VCD/CD/MP3-CD mode.
2 Press **OPEN•CLOSE**.
→ The disc carousel tray slides out.
3 Load a disc with the printed side up in the right tray.
• You can load another disc in the left tray.
• To load the third disc, press the **DISC CHANGE** button.
→ The disc carousel tray will rotate until the empty tray is ready for loading.
→ Playback will always start with the disc in the inner disc tray.
4 Press **OPEN•CLOSE** to close the disc carousel tray.
→ The total number of tracks and the playing time of the last selected disc appear on the display.

For MP3-CD only:
→ The first Album and the first Title information appear on the display.

Notes:

– *To ensure good system performance, wait until the disc changer completely reads the disc(s) before proceeding.*
– *For MP3-CD, the disc reading time may exceed 10 seconds due to the large number of songs compiled into one disc.*

Disc Direct Play

You can play a disc directly by pressing the **DISC 1**, **DISC 2** or **DISC 3** button.

Playing a normal disc

For normal VCD:
Ensure that the system is switched to the corresponding PAL or NTSC system of your TV set (except multi-system TV).

1 Press **PLAY ▶II** to start playback.
→ The disc tray, track number and elapsed playing time of the current track appear on the display.
• To interrupt playback, press **PAUSE ▶II**.
→ The playing time flashes.
• To resume playback, press **PLAY ▶II** again.
2 To stop playback, press ■.

Note:

– *During Disc Reading mode, if you press any button, "PLEASE WAIT" will be displayed.*

Disc Change

You can change the outer two discs while the third inner disc is stopped or is playing.

1 Press **DISC CHANGE**.
→ The disc carousel tray slides out.
2 Replace the discs in the left and right disc trays.
• If you press **DISC CHANGE** again during playback, the disc will stop playing.
→ The disc carousel tray will rotate until the inner tray is rotated out and is ready for changing.
3 Press **OPEN•CLOSE** to close the disc carousel tray.

Selecting a desired track

Selecting a desired track when playback is stopped

• Press **digit 0 – 9** on the remote control to select the desired track.
→ Playback will start immediately for the selected track.
→ The selected track number and elapsed playing time appear on the display.

Selecting a desired track during playback

• Press I◀ or ▶I *(or **digit 0-9** on the remote control)* until the desired track appears on the display.
→ The selected track number and elapsed playing time appear on the display.
• If you press I◀ once it will skip to the beginning of the previous track and play the track.

For MP3-CD only

1 Press **ALBUM —/+** *(◀◀ or ▶▶)* until the desired Album appears on the display *(when playback is stopped)*.
2 Press **TITLE —/+** *(I◀ or ▶I)* until the desired Title appears on the display.
→ The selected track number and elapsed playing time appear on the display.
3 Press **PLAY ▶II** to start playback.

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Searching for a particular passage during playback

- Press ◀◀ or ▶▶ to select 4 different search speed.
  → "FRX1" ; "FRX2" ; "FRX3" or "FRX4" is displayed on the TV screen when you select a fast rewind search.
  → "FFX1" ; "FFX2" ; "FFX3" or "FFX4" is displayed on the TV screen when you select a fast forward search.
  → Normal playback will begin at the end of the fast rewinding or forwarding of the selected track.
- Play returns to normal when **PLAY ▶II** is pressed or when a new track is selected.

Programming Tracks

Programming tracks of a loaded disc is possible when playback is stopped. The display will indicate the total tracks stored in the program. Up to 99 tracks can be stored in the memory in any order *(except for MP3-CD)*. When 99 tracks are stored and you attempt to store another track, the display will show *"FULL"*.

Note:

– *Program cannot be used for VCDs when PBC is switched on. Switch off PBC before storing tracks from such a VCD.*

1 Load the desired discs in the disc trays.
2 Press the **VCD** (CD 1•2•3) button to select the disc tray.
→ Programming can only be done on the selected disc.
3 Press **PROG** to start programming.
→ The **PROGRAM** starts flashing.
→ It will cancel any previously programmed tracks and selected repeat mode.
4 Press I◀ or ▶I *(or **digit 0-9** on the remote control)* to select the desired track.
- For MP3-CD, press **ALBUM** —/+ and **TITLE** —/+ to select the desired Album and Title for programming.

5 Press **PROG** to store the track.
- Repeat steps ***4*** to ***5*** to store other tracks.

6 Press ■ once to end programming.
→ The total number of tracks programmed and total playing time appear on the display.

Notes:

– *For MP3-CD, total playing time will not be shown.*
– *If the total playing time is more than "99:59" then "--:--" appears on the display instead of the total playing time.*
– *If the system is reading the disc, programming is not possible, "READING DISC" will be displayed.*
– *During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.*

Reviewing the program

Reviewing of program is possible only when playback is stopped.

1 Press I◀ or ▶I repeatedly to review the programmed tracks.
2 Press ■ to exit review mode.

Playing the program

1 Press **PLAY ▶II** to start program playback.
→ "PLAY PROGRAM" will be displayed.
→ The track number and elapsed playing time of the current track will appear on the display.
- If you press **REPEAT** during program playback, all programmed tracks will be played repeatedly.
  → "PROGRAM" or "OFF" will be displayed.
  → The **REPEAT** and **PROGRAM** appear on the display.

2 Press ■ to stop program playback.

Note:

– *If you press any other DISC DIRECT PLAY buttons, the system will play the selected disc or track and the stored program will be cleared.*

English

Erasing the program *(when playback is stopped)*

- Press ■ .
  → *"PROGRAM CLEARED"* will be displayed.

Note:
– *The program will be erased when the system is disconnected from the power supply. The system is switched to standby mode when you change source or when you change the program disc.*

Repeat *(only on remote control)*

You can play the current track or the current disc repeatedly during playback.

1 Press **REPEAT** on the remote control to select the various repeat modes.
  → *"TRACK"*, *"DISC"* or *"OFF"* will be displayed.
  → The **REPEAT** appears on the display.
- The current track or disc will now be played repeatedly until you press ■ .

2 Press **REPEAT** until the "OFF" mode is displayed to resume normal playback.
  → The **REPEAT** disappears from the display.

VIDEO CD

Adjusting the TV System

Before viewing the Video CD, ensure that the set is switched to corresponding PAL or NTSC system of your TV set *(exception Multi-system TV)*.

- Press and hold **VCD** for more than ***2 seconds*** to switch between PAL or NTSC TV system.
  → After TV system is selected, the set will automatically switch to the last TV system setting everytime the VCD source is selected.

Note:
– *Before adjusting the TV system, make sure that there is not MP3-CD disc in disc tray 1 during power up.*

OSD - On Screen Display

If you insert one or more VCDs/CDs, your TV screen will serve as an additional display for messages (e.g. PLAY, STOP), and information stored on the VCD/CD.

- Press **OSD** on the remote control repeatedly to switch ON or OFF.

When OSD is switched ON; you can see the following display on the TV screen.

Below is an example of the OSD message.

SINGLE ELAPSED
PLAY XX/TT MM:SS

Notes:
– *"XX" is the current track.*
– *"TT" is the total tracks.*
– *"MM" is in minutes.*
– *"SS" is in seconds.*

When OSD is switched off; there is no information indicated on the TV screen.

Playing a Video CD with PBC

VCDs with PBC (Play Back Control) will be indicated on the display of the set and on your TV screen as soon as they are inserted. PBC is a predefined play sequence stored on the VCD.

1 Switch on the TV, insert a VCD with PBC and press ▶ ❚❚ to start playback.
2 MENU appears on the TV screen.

If a menu consists of a list of titles you can select a sequence directly.

1 Select your choice with the **digit keys 0 - 9** on the remote control. The VCD starts playing of the selected sequence automatically.
2 Press **RETURN** (↩) to go back to the previous menu.

Note:
– *If a menu consists of more than one page, it is possible to go through the pages with PREV./NEXT on the set or remote control.*

Switching off PBC

- It is possible to switch off PBC in STOP mode by pressing the **PBC** button. Now this VCD can be treated like a normal VCD.
  → The TV display will show
  < PBC OFF > .

Notes:
– *In PBC mode PROGRAM is not active.*
– *The MENU structure depends on the program stored on the VCD. Please refer to the information supplied with the disc.*

Slow

1 Press **SLOW** on the remote control to watch a VCD in a slow speed. There are 3 types of slow modes to select.
  → "SLOW 1" , "SLOW 2" or "SLOW 3" appears on the TV screen.
2 Press ▶❚❚ again to resume playback at normal speed.

Note:
– *Audio is muted in Slow mode.*

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Resume

This feature is also applicable to audio CD *(except for MP3-CD).*

1 Press ■ to stop playback.
2 Press **RESUME** on the remote control to start playback again from where you have stopped.
→ "RESUME" appears on the display.

Note:
– *Resume information is lost if you select another disc or the set is disconnected from the mains, the system is switched to standby mode or when you change source.*
– *Resume is not available when PBC mode is switched on.*

Pause

1 Press ▶II to have a still picture on the TV screen.
→ "PAUSE" appears on the TV screen.
2 Press ▶II again to continue playback.

Note:
– *Audio is muted during Pause.*

Zoom

This feature enables you to view a still picture frame in an enlarge mode.

After you have pressed ▶II to have a still picture on the TV screen.

1 Press **ZOOM** once to enlarge the still picture by 2 times.
→ "ZOOM" appears on the TV screen.
• You can move the zoom picture left or right by pressing ◀◀ or ▶▶ respectively.
• You can move the zoom picture down or up by pressing I◀ or ▶I respectively.
2 Press **ZOOM** once more to return to normal still frame.
3 Press ▶II again on the remote control to continue playback.

A-B Repeat

This feature is also applicable to audio CD *(except for MP3-CD).* To play a certain scene or passage of the disc repeatedly.

1 Press **A-B** on the remote control during playback to mark the start of the chosen scene or passage.
→ "SET A" appears on the display.
2 Press **A-B** again to mark the end of the chosen scene or passage.
→ "SET B" appears on the display.
→ The selected scene or passage is played repeatedly.
→ "PLAY AB" appears on the display.
3 Press **A-B** once more to return to normal playback.
→ "CLEAR AB" appears on the display.

Notes:
– *You can also cancel A-B Repeat by pressing I◀ or ▶I.*
– *You can only repeat a maximum of one track. Once it cross from one track to the next, the A-B marking is reset.*

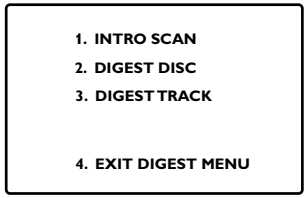
Return ↩

• Press **RETURN** to return to the previous VCD disc MENU level. It is functional only for Video CD when PBC is switched on.

Digest

This feature allows you to scan through a VCD for a quick review. PBC mode must be switched off. There are four digest mode for selection.

1 Press **DIGEST**.
→ "DIGEST" appears on the display.
→ "1.INTRO SCAN" , "2.DIGEST DISC" , "3.DIGEST TRACK" and "4.EXIT DIGEST MENU" appear on the TV screen.



• Press **digit 1** on the remote control to select "INTRO SCAN".
→ The first 10 seconds of each track are played.
• Press **digit 2** on the remote control to select "DIGEST DISC".
→ The first frame of each track appears on the TV screen.
→ Press **digit 0 – 9** on the remote control to playback the desired tracks.
→ Press I◀ or ▶I to view the previous or next page for additional information.

English

- Press **digit 3** on the remote control to select "DIGEST TRACK".
  → The first track of the selected disc will be divided into 9 parts and displayed on the TV screen.
  → Press **digit 0 – 9** on the remote control to playback the desired parts.
  → Press ⏮ or ⏭ to digest the next track.

2 Press **digit 4** on the remote control to select "EXIT DIGEST MENU".
  → Digest mode will be exited.

Vocal

This feature allows you to fade out the original vocal from a karaoke VCD. This feature is used together with Echo mode. You can also use it to select the different audio modes.

- **STEREO** – same effect as the original recorded disc.
- **STEREO VOCAL LEFT/RIGHT** – fade out the original vocal for special recorded Karaoke disc only *(with the ECHO mode switched on).*
- **MONO LEFT/RIGHT** – select the language on a bilingual VCD.

Ensure that Echo mode is switched on when press **VOCAL** to fade out the original vocal during STEREO VOCAL LEFT/RIGHT mode.

- Pressing **VOCAL** repeatedly allows you to select the following modes.
  → *STEREO → STEREO VOCAL LEFT → STEREO VOCAL RIGHT → MONO LEFT → MONO RIGHT → STEREO ...*

Echo

This feature allows you to add echo while singing or talking through a microphone.

- Press **ECHO** **–/+** to decrease or increase the echo effect.
  → "ECHO -" or "ECHO +" appears on the display.

Note:

– *You are advised to put echo to the minimum level when you are not using the feature. Echo mode is switched off when echo is at the minimum level.*

Key Control (♭ ♮ ♯)

This feature allows you to change the key of your vocal range.

- Press ♭ to decrease vocal key level.
  → "KEY DOWN" appears on the display.
- Press ♯ to increase vocal key level.
  → "KEY UP" appears on the display.
- Press ♮ to restore vocal key to original setting.
  → "KEY FLAT" appears on the display.

MP3 Disc

Album

This feature allows you to view and select the next or previous MP3-CD Album when playback is stopped.

- Press **ALBUM** **–/+** *(⏮⏮ or ⏭⏭)* to scroll through the previous or next Album name until the desired Album appears on the display.
  → The selected Album will appear on the display and follow by "A□□ T□□□".

Title

This feature allows you to view and select the next or previous MP3-CD Title when playback is stopped.

- Press **TITLE** **–/+** *(⏮ or ⏭)* to scroll through the previous or next Title name until the desired Title appears on the display..
  → The selected Title will appear on the display and followed by "A□□ T□□□".

Note:

– *"A" represents ALBUM and "T" represents TITLE, "□□" or "□□□" is the current selected Album or Title number.*

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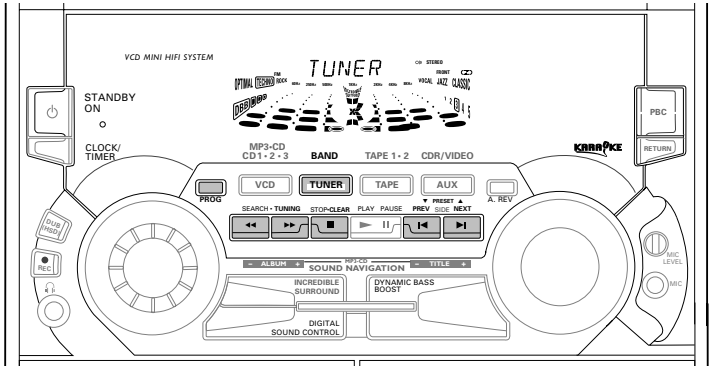


Note:
– *For 'EASY SET' feature, please refer to page 11.*

Tuning to radio stations

1 Press **TUNER** (BAND) to select TUNER mode.
→ "TUNER" will be displayed.
A few seconds later, the current radio frequency will be displayed.
2 Press **TUNER** (BAND) again to select the desired waveband : FM or MW.
3 Press ◀◀ or ▶▶ for more than one second, then release.
→ The display will show "SEARCH" until a radio station with sufficient signal strength is found.
• Repeat this procedure until the desired station is reached.
• To tune to a weak station, briefly press ◀◀ or ▶▶ repeatedly until the display shows the desired frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 40 radio stations in the memory. When a preset radio station is selected, the preset number appears next to the frequency on the display.

Automatic programming
1 Press **TUNER** (BAND).
2 Press **PROG** for more than one second.
→ The **PROGRAM** starts flashing and "AUTO" will be displayed.
→ The system will search for every available station in the FM waveband first, then search the MW waveband.
→ All available stations will be stored automatically. The frequency and preset number will be displayed briefly.
→ The system will stop searching when all the available radio stations are stored or when the memory for 40 preset radio stations is used.
→ The system will remain tuned to the last stored preset radio station.

Notes:
– *You can cancel the automatic programming by pressing PROG or ■ (on the system only).*
– *If you want to reserve a section of preset numbers, for example preset numbers 1 to 9, select preset 10 before starting automatic programming, only the preset numbers 10 to 40 will be programmed.*

Manual programming
1 Press **TUNER** (BAND).
2 Press **TUNER** (BAND) again to select the desired waveband : FM or MW.
3 Press **PROG** for less than one second.
→ The **PROGRAM** starts flashing.
→ The next available preset number will be displayed for selection.
4 Press ◀◀ or ▶▶ to tune to the desired frequency.
• If you wish to store the radio station to another preset number, press ▼ or ▲ to select the desired preset number.
5 Press **PROG** again.
→ The **PROGRAM** disappears and the radio station will be stored.
• Repeat ***steps 3 – 5*** to store other preset radio stations.

Notes:
– *When 40 radio stations are stored and you attempt to store another radio station, the display will show "FULL". If you want to change an existing preset number, repeat steps 3 – 5.*
– *You can cancel manual programming by pressing ■ (on the system only).*
– *During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.*

Tuning to Preset Radio Stations

• Press ▼ or ▲ to select the desired preset number.
→ The preset number, radio frequency, and waveband appear on the display.

Changing the MW tuning grid

(for specific version only)

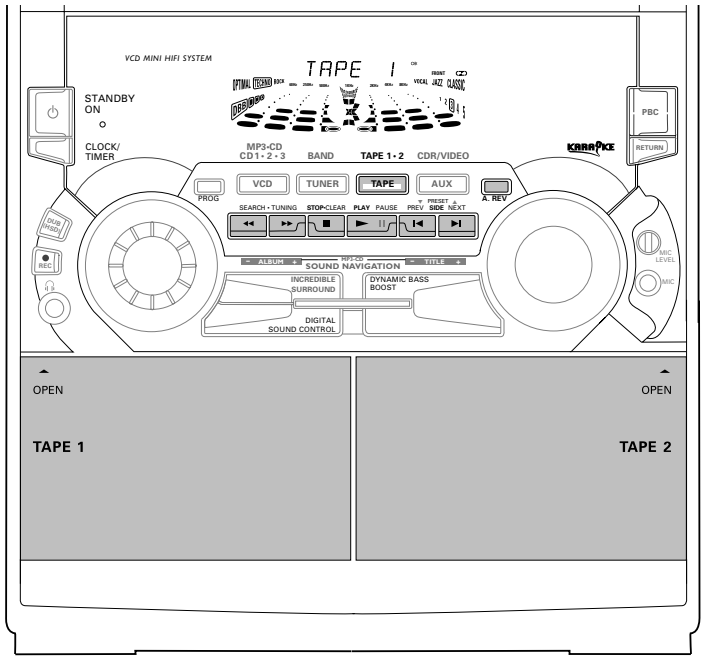
The frequency step can be changed if necessary. In North and South America, the frequency step between adjacent channels in the MW band is 10 kHz. In other parts of the world, it is 9 kHz. The frequency step preset in the factory is 9 KHz.

For MW Band
To change from 9 kHz to 10 kHz or vice versa

Changing of tuning grid will erase all previously stored preset stations.

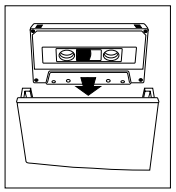
1 Disconnect the system from the AC power supply *(pull out the AC power cord)*.
2 Press and hold **TUNER** and **TUNING** ▶▶ while reconnecting the system to the AC power supply.
→ Display will show "GRID 10" or "GRID 9".

Notes:
– *GRID 9 indicates that the tuning grid is in step of 9 kHz in MW band. GRID 10 indicates that the tuning grid is in step of 10 kHz in MW band.*
– *FM tuning grid will also be changed from 50 kHz to 100 kHz or vice versa. All preset stations will also be erased.*



Loading a tape

1 Press **OPEN**.
2 The tape deck door opens.
3 Load the tape with the open side downward and the full spool to the left.
4 Close the tape deck door.



Tape Side *(only on tape deck 2)*

- Press ⏮ or ⏭ to select the tape side for playback or recording.
  → The **BACK** or **FRONT** appear on the display, depending on the tape side selected.
  → "T2 <<<" or "T2 >>>" will be displayed.
  → When recording, the **BACK** or **FRONT** display will be flashing.

Auto Reverse Playback *(only on tape deck 2)*

- Press **A. REV** to select the different playback modes.

  ..... to record or playback on one side of the tape. The tape stops at the end of one side.

  ..... to record or playback on both sides of the tape. The tape then stops.

  ... to playback continuously on both sides of the tape up to a maximum of 10 times per side unless you press ■ .

Tape Playback

1 Press **TAPE** (TAPE 1•2) to select TAPE mode.
→ "TAPE 1" or "TAPE 2" will be displayed, and followed by "T1 or T2" with "<<< or >>>".

- Press **TAPE** (TAPE 1•2) again to select either tape deck 1 or tape deck 2.

2 Load the tape into the desired tape deck.

3 Press ▶ to start playback.

- If tape 1 is selected for playback;
  → "T1" with ">" scrolling right will be displayed.
- If tape 2 is selected for playback;
  → "T2" with "< or >" scrolling left or right will be displayed depending on the tape side selected.

3a*(for playback on tape deck 2 only)*

- Press ⏮ or ⏭ to select tape side *(see Tape Side).*
- Press **A. REV** to select the different type of playback mode *(see Auto Reverse Playback).*

4 Press ■ to end playback.
→ "T1 or T2" with "<<< or >>>" will be displayed.

Rewind/Fast Forward

When playback is stopped

1 You can rewind or fast forward the tape by pressing ◀◀ or ▶▶ respectively.
→ If rewinding, "T1 < or T2 <" with "<" scrolling left will be displayed.
→ If fast forwarding, "T1 > or T2 >" with ">" scrolling right will be displayed
→ The tape will stop automatically at the end of the rewinding or fast forwarding.

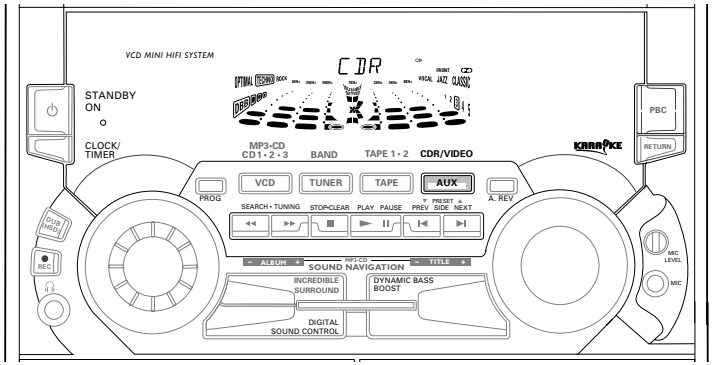
2 Press ■ to stop rewinding or fast forwarding.

During playback

- Press and hold ◀◀ or ▶▶ until the desired passage is located.
  → "T1 or T2" with "<< or >>" scrolling left or right will be displayed depending on which button is pressed.
  → During searching, the sound is reduced to a low volume.
  → When you release ◀◀ or ▶▶, the tape continues playing.

Notes:

- *During rewinding or fast forwarding of a tape, it is also possible to select another source (e.g. VCD, TUNER, or AUX).*
- *Before playing a tape, check and tighten slack tape with a pencil. Slack tape may get jammed or may burst in the mechanism.*
- *C-120 tape is extremely thin and is easily deformed or damaged. It is not recommended for use in this system.*
- *Store the tapes at room temperature and do not put them too close to a magnetic field (for example, a transformer, TV, or speaker).*



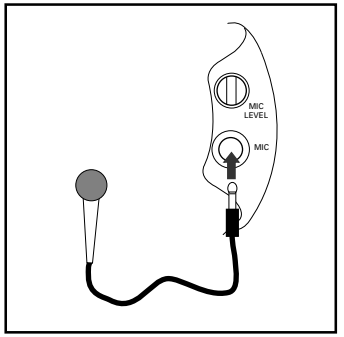
Selecting External Equipment

If you have connected the audio out terminals of the external equipment (TV, VCR, Laser Disc player, DVD player, or CD Recorder) to the AUX/CDR IN terminals, you can hear the enhanced sound from the system.

1 Press **AUX** to select CDR mode.
→ "CDR" will be displayed.
2 Press **AUX** again to select the external (normal AUX) mode.
→ "AUX" will be displayed.

Notes:

– *There are two Auxiliary modes:*
  i. the normal AUX mode.
  ii. the CDR mode, where the LINE OUT of this mini system is muted. You will not be able to record or listen to the sound from the LINE OUT.
– *You are advised not to listen to and record from the same source simultaneously.*
– *All the sound control features (e.g. DSC, DBB, etc.) are available for selection.*

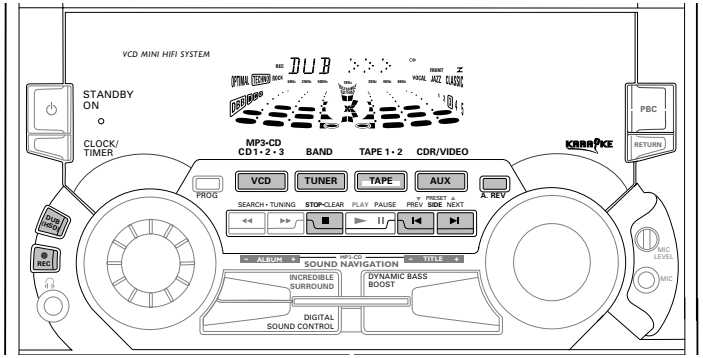


Microphone Mixing

1 Set the **MIC LEVEL** control to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before you connect the microphone.
2 Connect a microphone to the **MIC** socket.
3 Press **VCD**, **TUNER**, **TAPE** or **AUX**.
4 Play the selected source.
5 Adjust the volume level with **VOLUME** control.
6 Adjust the **MIC LEVEL** control to the mixing level that you want.
7 Start singing or talking through the microphone.

Note:

– *Keep the mic away from the speakers to prevent howling.*



Notes:

- *It is not possible to change tape side during recording.*
- *If you do not intend to record via the microphone, unplug the microphone to avoid accidental mixing with other recording source.*
- *For recording, use only tape of IEC type I (normal tape) or IEC type II (CrO_2).*
- *The tape is secured at both ends with leader tape. At the beginning and end of tape, nothing will be recorded for six to seven seconds.*
- *The recording level is set automatically, regardless of the position of Volume, DBB, Incredible Surround or DSC.*
- *To prevent accidental recording, break out the tab on the left shoulder of the tape side you want to protect.*
- *If "CHECK TAPE" is displayed, the protection tab has been broken. Put a piece of clear adhesive tape over the opening. Do not cover the CrO_2 tape detection hole when covering the tab opening.*

Recording from other sources

(only on tape deck 2)

1 Press **TAPE** (TAPE 1•2) to select tape deck 2.
2 Load a blank tape into tape deck 2 with the open side downward.
3 Press ⏮ or ⏭ to select the recording tape side *(see Tape Side under TAPE section).*
4 Press **VCD**, **TUNER** or **AUX**.
• Start playback of the selected source.
5 Press **REC** to start recording.
→ The **REC** starts flashing.
6 Press ■ to stop recording.

Notes:

- *Only ⇄ or ⇉ mode is available during recording .*
- *During recording, it is not possible to listen to another source.*

Dubbing tapes *(from tape deck 1 to tape deck 2)*

1 Press **TAPE** (TAPE 1•2) to select tape deck 2.
2 Load the prerecorded tape into tape deck 1 with full spool to the left and a blank tape into tape deck 2 with full spool aside.
3 Press ⏮ or ⏭ to select the recording tape side *(see Tape Side under TAPE section).*
4 Press **DUB (HSD)** ***once*** for normal speed dubbing or ***twice*** *(within 2 seconds)* for high speed dubbing.
→ "NORMAL" (normal speed) or "FAST" (high speed) will be displayed, followed by "DUB" with "< or >" scrolling left or right depending on the tape side selected.
→ The **HSD** appears on the display during high speed dubbing.
• Dubbing will start immediately.
→ The **REC** starts flashing.
5 Press ■ to stop dubbing.

Notes:

- *Only ⇄ mode is available during dubbing.*
- *At the end of side A, flip the tapes to side B and repeat the procedure.*
- *Dubbing of tapes is only possible from tape deck 1 to tape deck 2.*
- *To ensure good dubbing, use tapes of the same length.*
- *During high speed dubbing in Tape mode, the sound is reduced to a low volume.*
- *You can listen to another source while dubbing.*

VCD/CD/MP3-CD Synchro Start Recording

1 Load a blank tape into tape deck 2 and a disc into a disc tray.
2 Press **VCD** to select VCD/CD/MP3-CD mode.
- You can program the tracks in the order you want them to be recorded (see Programming Tracks). If not, select the disc by pressing **VCD** (CD 1•2•3) and the tracks are recorded according to the order on the selected disc.

3 Press **REC** to start recording.
→ The REC starts flashing.
- Disc will start playback automatically.

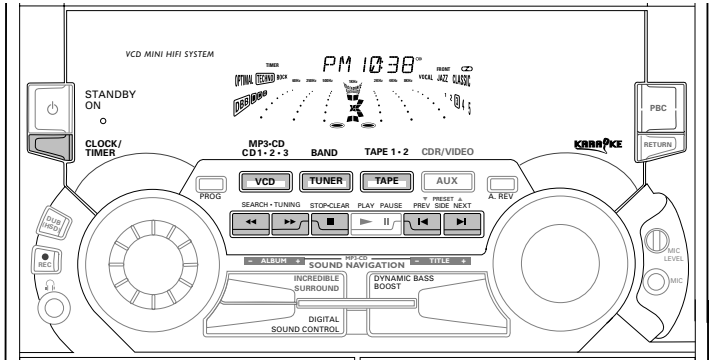
4 Press ■ to stop recording.

Recording the mixed sound / One Touch Recording

- During microphone mixing, you can record the mixed sound on a tape in tape deck 2 except dubbing mode.
- For One Touch Recording, as soon as you press **REC**, the current source (VCD, TUNER or AUX) will be recorded on tape deck 2.

1 Load a blank tape in tape deck 2.
2 Press **REC** to start recording.
→ The REC starts flashing.
3 Press ■ to stop recording.

Note:
– *When you press RECORD while in TAPE mode, "SELECT SOURCE" will be displayed. One Touch Recording is not possible in TAPE mode.*



View Clock

You can view the clock (if it is set) if the system is in Standby mode or when any sound source is selected (CD, TUNER, etc.). The clock will be displayed for about 7 seconds.

- Press **CLOCK/TIMER** briefly.
→ "PM 10:38 or 22:38" (the current time) will be displayed depending on whether you have selected 12- or 24-hour mode.
→ "--:--" will be displayed if the clock is not set.

Clock Setting

The clock can be set in either 12- or 24-hour mode, e.g. "AM 12:00" or "00:00". Before setting the clock, you must be in the View Clock mode.

1 Press **CLOCK/TIMER** to select clock mode.
2 Press **PROG** *(on the system only)* to select 12- and 24- hour mode.
→ If 12-hour mode is selected, "AM 12:00" starts flashing.
→ If 24-hour mode is selected, "00:00" starts flashing.
3 Set the hour with ◀◀ or ▶▶ on the system.
4 Set the minute with ⏮ or ⏭ on the system.

5 Press **CLOCK/TIMER** again to store the setting.
→ The clock starts.

- To exit without storing the setting, press ■ on the system.

Notes:
– *During clock setting, if no button is pressed within 90 seconds, the system will exit clock setting mode automatically.*
– *When a power interruption occurs, the clock setting is erased.*

Timer Setting

- The system can switch on to VCD, TUNER, or TAPE 2 mode automatically at a preset time. It can serve as an alarm to wake you up.
- Before setting the timer, make sure the clock is set correctly.
- The timer will always be switched on once it is set.
- **The volume of the timer will increase from the minimum level until the volume level before the set is switched to standby mode.**

1 Press and hold **CLOCK/TIMER** for more than ***2 seconds*** to select timer mode.
→ "AM 12:00" or "00:00" or the last timer setting starts flashing depending on whether you have selected 12- or 24-hour mode.
→ The **TIMER** starts flashing.
→ The selected source is lit while other available sources are flashing.
2 Press **VCD, TUNER** or **TAPE** to select the desired source.
- Before selecting VCD or TAPE, make sure a disc or tape is loaded in the disc tray or tape deck 2.

3 Press ◀◀ or ▶▶ on the system to set the hour for the timer to start.
4 Press ⏮ or ⏭ on the system to set the minute for the timer to start.
5 Press **CLOCK/TIMER** to store the start time.
→ The timer is now set.
→ The **TIMER** remains on the display.

- At the preset time, the timer will be activated.
→ The selected source will be played.

Notes:
– *During timer setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.*
– *If the source selected is TUNER, the last tuned frequency will be switched on.*
– *If the source selected is VCD, playback will begin with the first track of the disc tray 1 or other trays if disc tray 1 is empty. If all the disc trays are empty, the TUNER will be selected instead.*
– *If the source selected is TAPE, and if the preset time is reached during high speed dubbing, the TUNER will be selected instead.*
– *The timer will not activate if a recording is in progress.*

To switch off the TIMER
1 Press and hold **CLOCK/TIMER** for more than ***2 seconds***.
2 Press ■ on the system to cancel the timer.
→ The timer is now switched off.
→ The display will show "OFF" and the **TIMER** disappears.

To start the TIMER again *(for the same preset time and source)*
1 Press and hold **CLOCK/TIMER** for more than ***2 seconds***.
2 Press **CLOCK/TIMER** again to store the start time.
→ The timer is now on.
→ The **TIMER** appears on the display.

English

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English

Specifications

AMPLIFIER

Output power ..... 2000 W PMPO / 2 X 50 W RMS(1)
Signal-to-noise ratio ..... ≥ 75 dBA (IEC)
Frequency response ..... 40 – 20000 Hz, ± 3 dB
Input sensitivity
- AUX/CDR In ..... 500 mV
- Microphone ..... 4.5 mV

Output
- Speakers ..... ≥ 6 Ω
- Surround Speakers ..... ≥ 6 Ω
- Headphones ..... 32 Ω – 1000 Ω
- Subwoofer Out ..... 1.5 V ±2dB, > 22000 Ω
- Line Out ..... 500 mV ±2dB, > 22000 Ω

(1) (6 Ω, 1 kHz, 10% THD)

DISC PLAYER

Number of programmable tracks 99
Frequency response ..... 40 – 20000 Hz
Signal-to-noise ratio ..... ≥ 76 dBA
Channel separation ..... ≥ 79 dB (1 kHz)
Total harmonic distortion ..... < 0.02% (1 kHz)
MPEG 1 ..... VCD version 2.0
MPEG 1 Layer 3 (MP3-CD) ..... MPEG AUDIO
MP3-CD bit rate ..... 32 – 256 kbps
- sampling frequencies ..... 48 kHz, 44.1 kHz, 32 kHz

TUNER

FM wave range ..... 87.5 – 108 MHz
MW wave range (9 kHz) ..... 531 – 1602 kHz
MW wave range (10 kHz) ..... 530 – 1700 kHz
Tuning grid ..... 9/10 kHz
Number of presets 40
Antenna
- FM ..... 75 Ω wire
- AM ..... Loop antenna

TAPE DECK

Frequency response
- CrO_2 tape (type II) ..... 60 – 15000 Hz (5 dB)
- Normal tape (type I) ..... 60 – 15000 Hz (5 dB)

Signal-to-noise ratio
- CrO_2 tape (type II) ..... ≥ 50 dBA
- Normal tape (type I) ..... ≥ 47 dBA

Wow and flutter ..... ≤ 0.4% DIN

SPEAKERS

System ..... 2-way; double port bass reflex
Impedance ..... 6 Ω
Woofer ..... 1 x 5.25"
Tweeter ..... 1 x 2.5"
Dimensions (w x h x d) ..... 240 x 310 x 315 (mm)
Weight ..... 3.9 kg each

GENERAL INFORMATION

Material/finish ..... Polystyrene/Metal
AC Power ..... 110 - 127 / 220 - 240 V;
..... 50/60Hz; Switchable
Power Consumption
- Active ..... 75 W
- Standby ..... < 15 W

Dimensions (w x h x d) ..... 265 x 310 x 390 (mm)
Weight (without speakers) ..... 7.38 kg

Subject to modification

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Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.

Cleaning the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads, the capstan(s), and pressure roller(s) after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.

Demagnetizing the heads

- Use a demagnetizing tape available at your dealer.

Warning! Under no circumstances should you try to repair the set yourself as this will invalidate the guarantee. Do not open the set as there is a risk of electric shock.

- If a fault occurs, check the points listed below before taking the system for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

Disc Player Operation

"UNREADABLE DISC" is displayed.

- The disc is inserted upside down.
→ *Place disc with printed side up.*
- Moisture condensation at the lens.
→ Wait until lens has adjusted to normal room temperature.
- The disc is dirty, badly scratched or warped.
→ *Clean or replace the disc.*
- The disc lens is dirty or dusty
→ *See section under Maintenance (page 27).*
- A CD-RW disc or an incorrect MP3-CD format disc is inserted.
→ *Replace a readable disc or correct recorded format MP3-CD.*

"NO DISC" is displayed.

- There is no disc in the disc tray.
→ *Insert a disc.*

No picture on TV screen.

- The video cable is not connected.
→ *Connect the cable between the system and TV.*

No colour on TV.

- The system switch is not correct.
→ *Change the system to respective setting (PAL or NTSC).*

Cannot adjust the TV system to PAL or NTSC.

- There is a MP3-CD in disc tray 1.
→ *Remove the MP3-CD from disc tray 1 or press DISC CHANGE to select a non-MP3 disc tray before adjusting the TV system.*

English

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TROUBLESHOOTING

Radio Reception

Poor radio reception.

- The signal is too weak.

→ *Adjust the antenna.*

→ *Connect an external antenna for better reception.*

- The TV or VCR is too close to the stereo system.

→ *Separate the stereo system from the TV or VCR.*

Cannot tune to station

- Wrong tuning grid.

→ *Switch to the correct tuning grid.*

Tape Deck Operation

Recording or playback cannot be made or there is a decrease in audio level.

- Dirty tape heads, capstans or pressure rollers.

→ *See section on tape deck maintenance (page 27).*

- Magnetic build-up in the record/ playback head.

→ *Use demagnetizing tape.*

Tape deck door cannot open.

- Power failure or AC power plug disconnect from the wall outlet during tape playback.

→ *Reconnect the AC power plug and switch on the system again.*

General

System does not react when any button is pressed.

- Electrostatic discharge.

→ *Press STANDBY ON to switch the system off. Remove the AC power plug from the wall outlet, then reconnect the power plug and switch on the system again.*

No or poor sound.

- Volume is not turned up.

→ *Adjust VOLUME.*

- The headphones are connected.

→ *Disconnect the headphones.*

- Speakers are not connected or are connected wrongly.

→ *Check that the speakers are connected correctly.*

→ *Make sure the stripped speaker wire is clamped.*

- The MP3-CD bit rate below 32 kbps.

→ *Make sure the MP3-CD was recorded within 32-256 kbps bit rate with sampling frequencies at 48 kHz, 44.1 kHz or 32 kHz.*

Reversed left and right sound.

- Speakers are connected wrongly.

→ *Check the speaker connections and location.*

Lack of bass sound or apparently imprecise physical location of musical instruments.

- Speakers are connected wrongly.

→ *Check the speaker connection for proper phasing, colored/black wires to colored/black terminals.*

Remote control has no effect on the system.

- Wrong source is selected.

→ *Select the source (VCD, TUNER, etc.) before pressing the function button (▶, ⏮, ⏭, etc.).*

- The distance to the system is too large.

→ *Reduce the distance.*

- Batteries are inserted incorrectly.

→ *Insert the batteries with their polarities (+/– signs) as indicated.*

- Batteries are exhausted.

→ *Replace the batteries.*

Timer is not working.

- Clock is not set.

→ *Set the clock.*

- Timer is not switched on.

→ *Press CLOCK/TIMER to switch on the timer.*

- Recording is in progress.

→ *Stop recording.*

Clock setting is erased.

- There was a power failure.

→ *Reset the clock.*

System displays features automatically; buttons flash continuously.

- Demonstration mode is switched on.

→ *Press and hold ■ (on the system only) for 5 seconds to switch off the demonstration.*

There is a howling sound at the external source.

- You hear feedback when you are listening from AUX mode.

→ *Press AUX to select CDR mode.*

All lighted buttons are not lit.

- Equalizer Display is switched on in NITE mode.

→ *Adjust JOG to select other Equalizer Display.*

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